Parenteral Preparations

Michael J. Akers, PhD

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Parenteral (Gk, poor enteron, beside the intestine) dosage forms differ from all other drug dosage forms, because they are injected directly into body tissue through the primary protective systems of the human body, the skin, and mocous membranes. They must be exceptionally pure and free from physical, elhernical, and biological contaminants. These requirements place a heavy responsibility on the pharmaceutical industry to practice current good manufacturing practices (cGMPs) in the manufacture of parenteral dosage forms and on pharmacists and other health care professionals to practice good aseptic practices (GAPs) in dispensing parenteral dosage forms for administration to patients.

Certain pharmaceutical agents, particularly peptides, proteins, and many chemotherapoutic agents, can only be given parenterally, because they are inactivated in the gastrointestinal tract when given by mouth. Parenterally-administered drugs are relatively unstable and generally highly potent drugs that require strict control of administration to the patient. Due to the advent of biosechnology, parenteral products have grown in number and usage around the world.

This chapter focuses on the unique characteristics of paronteral dosage forms and the basic principles for formulating, pselegging, manufacturing, and controlling the quality of these unique products. The references and bibliography at the end of this chapter contain the most up-to-date texts, book chapters, and review papers on parenteral product formulation, manufacture, and quality control.

OVERVIEW OF UNIQUE CHARACTERISTICS OF PARENTERAL DOSAGE FORMS

Parenteral products are unique from any other type of pharmacentical dosage form for the following reasons:

- All products must be sterile.
- All products must be free from pyrogenic (endotoxin) contamination.
- Injectable solutions must be free from visible particulate matter. This includes reconstituted sterile powders.
- Products should be isotomic, although strictness of isotomicity depends on the route of administration. Products administration in the cerebrospinal fluid must be isotomic. Ophthalmic products, although not parenteral, must also be isotomic. Products to be administered by bolus injection by routes other than intravenous (IV) should be isotomic, or at least very close to isotomicity. IV infusions must be isotomic.
- All products must be stable, not only chemically and physically like all other dosage forms, but also 'stable' microbiologically (i.e., sterility, freedom from pyrogenic and visible particulate contamination must be maintained throughout the shelf life of the product).
- Products must be compatible, if applicable, with IV diluents, delivery systems, and other drug products co-administered.

Chapter 26 Parenteral Preparations Pharmaceutical Press

Anthony S. Fauci

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